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TITLE : COMPOSITION FOR ELECTRICALLY CONDUCTIVE EPOXY RESIN COATING

ABSTRACT : PURPOSE: To obtain the titled composition giving a cured coating film having electrical conductivity and weldability, by adding a specific electrically conductive metal powder to an epoxy resin paint obtained by compounding a rubber-modified epoxy resin, a phenoxy resin, a curing agent and an organic solvent.

CONSTITUTION: The objective composition capable of imparting electrical conductivity to a coating film without deteriorating the excellent paint characteristics of epoxy resin, by compounding (A) a rubber-modified epoxy resin (containing 5~35wt.% rubber component) produced by reacting an epoxy resin (e.g. polyfunctional novolak resin) with a butadiene-acrylonitrile copolymer rubber having carboxyl group, (B) 40~90wt.% phenoxy resin (based on the sum of A and B), (C) a curing agent component, (D) an organic solvent and (E) 25~75wt% electrically conductive metal powder containing ≥ 95 wt.% particles having diameter of $\leq 10\mu\text{m}$ and produced by mixing (i) aluminum powder with (ii) one or more powdery metals selected from nickel, zinc and stainless steel powder.

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